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LETTER OF TRANSMITTAL

To: NJDEP-BEECRA

401 East State Street

Trenton, NJ 08625

Date:	7/30/96	Job No.:	94039 T1
Attention:	Joseph J. Nowak		
Re:	Hexcel Corporation		
	Lodi Borough, Bergen County, NJ		
	ISRA Case No. 86009		

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Remarks:

SIGNED:


Marjorie A. Piette

COPY TO:

A. William Nosil

Lisa M. Bromberg

James Higdon

If enclosures are not as noted, kindly notify us at once.

SDMS Document



88259

July 29, 1996

150 Mineral Spring Drive
Dover, New Jersey 07801
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Joseph J. Nowak
New Jersey Department of Environmental Protection
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment
CN 432
401 East State Street
Trenton, NJ 08625

SUBJ: Hexcel Corporation
Lodi Borough, Bergen County, New Jersey
ISRA Case No. 86009
GEO Project No. 94039

Dear Mr. Nowak:

On behalf of Hexcel Corporation (Hexcel), the following is the progress report of activities carried out during April, May and June of 1996. This quarterly report is prepared in accordance with the Industrial Site Recovery Act (ISRA) requirements for the former Hexcel facility in Lodi, New Jersey. Also included in this report are responses to the New Jersey Department of Environmental Protection (NJDEP) letter dated May 23, 1996. Appendix A provides an item-by-item checklist of Hexcel's responses, cross-referenced to the text of this progress report.

The following topics are discussed in this progress report:

1. Ground Water/DNAPL/LNAPL Monitoring
 - a) Quarterly Monitoring
 - b) Monthly Monitoring
 - c) Well Closure
 - d) Drum Storage Over Certain Wells
2. Product Recovery Program
 - b) DNAPL Recovery
 - c) LNAPL Recovery
3. Ground Water Treatment System
 - c) Evaluation and Testing of Ground Water Recovery System
 - d) Treatment and Disposal of Basement Seepage Water
4. Off-Site Investigation
5. Waste Disposal Documentation
6. Schedule and Cost Estimates

1. Ground Water/DNAPL/LNAPL Monitoring

This section includes the results of quarterly monitoring performed in April 1996, and monthly monitoring performed in May and June 1996. Modifications to the NJDEP approved "Groundwater/DNAPL/LNAPL Monitoring Plan" prepared by Killam Associates had been presented in our progress report dated October 24, 1994. The modifications were approved by the NJDEP in its June 12, 1995 letter. Sections 1a and 1b provide details for quarterly and monthly monitoring, respectively. Additionally, we have addressed the NJDEP's questions regarding the replacement of MW-32 and non-accessibility of certain wells due to drum storage in Sections 1c and 1d respectively.

1a. Quarterly Monitoring

Hexcel conducted quarterly ground water elevation, DNAPL and LNAPL monitoring on April 17, 1996 in accordance with the monitoring plans. NJDEP, in its May 23, 1996 letter, has indicated that Hexcel appears to be including more wells in the quarterly product monitoring than originally proposed. Hexcel monitors all the wells proposed for water elevation monitoring also for product because both water level and product are monitored using a product interface probe. This means that a well can be checked for both LNAPL and DNAPL when depth to water and depth to bottom in the well are measured. Hexcel plans to continue this approach for the quarterly monitoring. Hexcel would also like to clarify an error in the list of wells provided in Item 3 of the NJDEP letter: CW-4, and not CW-2, is part of the quarterly monitoring program.

Results of the April 17, 1996 quarterly monitoring are tabulated in Table 1. Due to an erroneous measurement for MW-7, a deep well, another round of monitoring was conducted for all the deep wells on April 25, 1996. Figures 1 and 2 illustrate shallow and deep ground water elevation contours respectively. Contour Map Reporting Forms are enclosed for each of the contour maps. Table 2 contains a summary of well construction data to accompany the Contour Map Reporting Form for Figure 1. Figures 1 and 2, Tables 1 and 2, and the reporting forms are located in Appendix B.

1b. Monthly Monitoring

On May 15 and June 13, Hexcel conducted monthly DNAPL and LNAPL monitoring in accordance with the monitoring plans and modifications approved by the NJDEP in its June 12, 1995 letter. Additionally, the following modifications were made to the monthly monitoring plan this quarter:

- MW-23: MW-23 was included in the monthly monitoring program subsequent to the trace detection of LNAPL on the probe during the quarterly monitoring in April. MW-23 was monitored in May and June but did not indicate presence of LNAPL.

Results for May and June monthly monitoring are provided in Tables 3 and 4 located in Appendix C.

Hexcel will continue to modify the monthly monitoring by the addition or deletion of wells in accordance with the approved plan.

1c. Well Closure

Hexcel had provided details on the closure of MW-32 in the April 1996 progress report. The May 23, 1996 letter from the NJDEP addressed the progress reports for July and October 1995 and January 1996. Since the NJDEP letter was written prior to the review of the April 1996 progress report, Hexcel has addressed NJDEP's question regarding the replacement of MW-32 again in this progress report. Hexcel reiterates its position that it is reasonable not to replace MW-32 due to the fifty-seven (57) other shallow wells (excluding the recovery wells) present on site. Comparison of October 1995 ground water elevation contours (which included data from MW-32) with January and April 1996 contours (data collected after MW-32 was damaged) indicates that ground water elevation data from MW-32 is not critical. Additionally, no product has ever been detected in MW-32. Three shallow wells, MW-4, MW-27 and MW-21 in the vicinity of MW-32 (50 to 60 feet from MW-32 location) will allow Hexcel to monitor ground water conditions in this area. Hexcel believes that based on the above-stated facts, NJDEP will concur that there is no need for replacement of MW-32.

1d. Drum Storage Over Certain Wells

The NJDEP has inquired about the nature of the drums that have prevented access to some wells during the quarterly monitoring. The area towards the west of the buildings along the Saddle River serves as a drum storage area for Fine Organics Corporation, the facility's current owner. At times some of the flush-mount wells are covered by pallets of 55-gallon drums. According to Fine Organics, these are empty drums which are waiting to be filled with chemical products.

2. Product Recovery Program

This section includes results for the temporary product recovery program currently being implemented at the site. This product recovery program, consisting of manually recovering product from affected wells on a weekly basis, was initiated on October 20, 1994. After one month, the program's frequency was reduced to twice a month due to a reduction in the quantity of product recovered. Product recovery continued at the rate of

at least twice a month through the week of June 19, 1995. In accordance with the NJDEP's June 12, 1995 letter, weekly product recovery was resumed the week of June 26, 1995.

NJDEP approved the modifications to the weekly product recovery program for LNAPL and DNAPL in its May 23, 1996 letter. Hexcel modified the weekly product recovery program by revising the criteria for inclusion of wells in the program. The modifications were communicated to the NJDEP in a letter dated September 21, 1995 and also in the October 1995 progress report. According to the modifications, any well which has no measurable recovery for three consecutive weekly recovery rounds will be moved to monthly monitoring and recovery. For the purposes of product collection, quantities greater than 0.1 gallon (approximately 1 cup) are considered to be measurable.

2a. DNAPL Recovery

During the second quarter of 1996, DNAPL was recovered once from CW-16 and more consistently from MW-6 and PB-2. DNAPL recovery during the second quarter of 1996 is summarized in Table 5, located in Appendix D.

2b. LNAPL Recovery

During the second quarter of 1996, recoverable quantities of LNAPL were not detected in any of the wells on-site. Results for LNAPL recovery are summarized in Table 6 located in Appendix D.

NJDEP has requested Hexcel to inspect the length of the Saddle River next to the site for floating product whenever LNAPL is detected in wells located adjacent to the river. LNAPL has not been detected in any Hexcel wells for the last two quarters. Out of all the wells along the Saddle River bank, only MW-8 had indicated presence of trace LNAPL on the product interface probe in August 1995. An absorbent pad had been installed in MW-8 subsequent to trace LNAPL detection but no LNAPL has ever been recovered from MW-8. There is no evidence of LNAPL discharge to Saddle River from the former Hexcel facility. On the other hand, there have been numerous reported spills on the Saddle River banks from the auto detailing and repair facilities across from the Hexcel site. The auto repair facilities could be possible sources of contamination for the Saddle River. Saddle River, both upstream and downstream of the site, is susceptible to contamination from industrial as well as non-industrial sources. Hexcel will continue to monitor the presence of LNAPL during the quarterly and monthly monitoring and will inspect the Saddle River if LNAPL is detected in any well located adjacent to the river.

3. Ground Water Treatment System

This section includes documentation of Hexcel's efforts regarding evaluation and operation of the existing ground water treatment system. The following subsections provide the details.

3a. Evaluation and Testing of Ground Water Recovery System

Hexcel is awaiting approval of the temporary pilot test air permit to evaluate and test the recovery system to optimize the system for hydraulic control. Passaic Valley Sewerage Commissioners (PVSC) has approved the permit to allow Hexcel to discharge treated water into the PVSC sewer line. The schedule provided in Table 7 (Appendix G) of this progress report includes current estimates for the testing of the system, modifications to the design of the system and reporting the design proposal to the NJDEP. Below we discuss the status of the pilot test permit and address NJDEP's questions (May 23, 1996 letter) regarding the borings that were installed in the basement of Building I.

Pilot Test Permit

Hexcel submitted an application on April 2, 1996 for a revised air permit to perform a pilot test of the existing system at the advice of the NJDEP's Bureau of New Source Review. We are awaiting approval of this application, which will provide Hexcel with a temporary pilot test permit.

Borings in Building I

NJDEP, in its May 23, 1996 letter has requested information on the borings installed in Building I on June 13 and 14, 1995. As stated in the October 1995 progress report, four shallow borings were advanced through the basement floor slab of Building I to assist in the evaluation and testing of the ground water recovery system. The borings were advanced a short distance into the clayey confining unit which underlies the site. Visual observations during drilling in the basement, review of the boring logs and review of the clay elevations indicates that the confining layer encountered in the PB borings is part of the confining layer which separates the shallow and deep formations at the site. Evaluation of the clay topography at the site will be addressed further in the permanent recovery system design report. A layer of fill, varying in thickness from 2 to 5 inches, lies between the floor slab and the confining unit. The basement borings were identified as PB-1, 2, 3 and 4. Three (PB-1, PB-2 and PB-4) borings were screened across the fill and completed as 2-inch diameter well points. At all three well points, the bottom of the screen was set at approximately 2 feet below the floor slab. The boring logs for these borings are provided in Appendix E.

PB-1, 2 and 4 have been included in the quarterly monitoring program. Additionally, PB-2 is also part of the monthly product monitoring and DNAPL has been recovered frequently from PB-2 during the weekly product recovery.

3b. Treatment of Basement Seepage Water

Basement seepage water continues to be treated on-site and discharged to the Passaic Valley Sewerage Commissioners (PVSC) sewer line. PVSC issued a permit on

May 16, 1996 authorizing Hexcel to discharge treated water into the PVSC sewer line. In addition, prior to the issuance of the permit, the PVSC authorized discharges into the PVSC sewer line in February and April 1996.

4. Off-Site Investigation

This section addresses the various issues raised in the NJDEP's May 23, 1996 letter concerning off-site investigation. Hexcel has been asked by the NJDEP to:

- i. initiate the installation of monitoring wells at the Napp Technologies, Inc. (Napp) facility before modifying the design of the recovery system, and
- ii. provide further information regarding construction specifications and clay elevation for the U.S. Army Corps of Engineers (Army Corps) well across the Saddle River.

Each of these issues is discussed below.

Additional Well Installation at Napp: Hexcel does not need additional data south of the site at this time. The design proposal for modification of the ground water recovery system will be based on existing information in addition to the information obtained through hydraulic testing and the pilot test of the recovery system (see Table 7 for the estimated schedule for these activities). Therefore, Hexcel will wait until the results of the investigation by Napp have been reported to the NJDEP. We will reevaluate the need for additional ground water data south of the Hexcel site at that time.

Off-Site Investigation Across the Saddle River: Based on the information provided by the Army Corps, the well construction details (specifically the screened interval for the well) could not be determined. Although the depth of boring drilled for the well was 32 feet below the ground surface, it is not clear if the bottom of the well screen was also set at the bottom of the boring. The log for the boring indicates that a brown, dense clayey silt was encountered at approximately 20 feet depth from the ground surface. The elevation for the top of this clayey silt can be calculated by surveying the ground surface elevation at the well. Hexcel is contacting the Army Corps for any further information on the well construction. Hexcel will approach the Army Corps and the property owner to obtain permission to survey the well and measure the depth to bottom for the well. Hexcel is hoping to obtain enough information from the Army Corps which will allow construction of a cross-sectional diagram of the elevation of top of clay at the Army Corps well to the elevation of clay encountered in Hexcel wells and the elevation of the Saddle River channel, as requested by the NJDEP.

5. Waste Disposal Documentation

Enclosed as Appendix F are manifests and a summary table for waste disposal during April, May and June 1996.

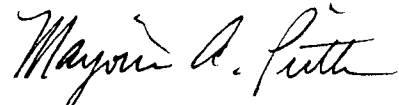
6. Schedule and Cost Estimates

Table 7 located in Appendix G presents an updated estimate of the schedule of remaining remedial activities. There has been no change to date in the estimate of cleanup costs.

We will continue to submit quarterly progress reports according to the schedule. Please call us if you have any questions regarding the above.

Sincerely,

GEO ENGINEERING, INC.



Marjorie A. Piette
Project Manager

MAP/III

Enclosures

cc: A. William Nosil
Lisa Bromberg, Esq.
James Higdon

Appendix A

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Appendix A

**Hexcel Corporation
Lodi Borough, Bergen County, New Jersey
ISRA Case No. 86009
GEO Project No. 94039**

Checklist of Responses to Items in the NJDEP's May 23, 1996 letter.

I Soil Comments

1. An estimated schedule for implementation of soil remediation has been provided in the Table 7 in Appendix G of the July 30, 1996 progress report (this report).

II Ground Water Comments

2. No response needed.
3. Refer to section 1a of this report for comments.
4. No response needed.
5. No response needed.
6. Refer to section 2b of this report .
7. No response needed.
8. No response needed.
9. Refer to section 3a of this report.
10. No response needed.
11. Refer to section 4 of this report under sub-heading of "Additional Wells Installation at Napp".
12. Refer to Section 4 of this report under sub-heading of "Off-Site Investigation Across the Saddle River".
13. Hexcel will consider any revision of the ground water elevation monitoring program within the proposal for the permanent ground water recovery system design.
14. Hexcel will include proposals for ground water sampling, LNAPL and DNAPL monitoring within the proposal for the permanent ground water recovery system design.
15. Hexcel will submit a proposal for Saddle River sampling within the permanent ground water recovery system design.
16. No response needed.
17. Refer to Section 1d of this report.
18. Refer to Section 1c of this report.

III General Requirements

19. No response needed.
20. An updated estimated schedule is included in this report (Table 7, Appendix G).
Hexcel had requested the NJDEP, in a letter from Porzio, Bromberg and Newman dated June 6, 1996, to allow submission of the remediation action schedule with the July 1996 progress report.
21. No response needed.
22. No response needed.
23. No response needed.
24. No response needed.
25. There has been no change in the remedial cost estimates, as stated in Section 6 of this report.

Appendix B

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/17/96)

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -
 -All elevations in feet (NGVD)-

GEO Engineering

July 1996

File: 94039/wldata/Quatrly.xls

Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
RW Series:											
RW1-1	shallow	4.57	--	--	--	14.29	28.24	23.67	flush	s.steel	
RW6-1	shallow	2.57	--	--	--	13.74	28.84	26.27	flush	s.steel	Product on probe (DNAPL)
RW6-2	shallow	2.71	--	--	--	14.81	29.34	26.63	flush	s.steel	
RW6-3	shallow	3.34				5.42	28.72	25.38	flush	s.steel	
RW7-1	shallow	4.92	--	--	--	16.53	26.25	21.33	flush	s.steel	Product on probe (DNAPL)
RW7-2	shallow	4.95	--	--	--	16.82	26.48	21.53	flush	s.steel	Orange floc on probe.
RW7-3	shallow	5.14	--	--	--	17.28	26.78	21.64	flush	s.steel	Sediment on probe.
RW7-4	shallow	5.40	--	--	--	19.10	27.11	21.71	flush	s.steel	Product on probe (DNAPL)
RW7-5	shallow	5.98	--	--	--	19.39	27.57	21.59	flush	s.steel	
RW7-6	shallow	5.27	--	--	--	15.00	26.48	21.21	flush	s.steel	
RW7-7	shallow	5.50	--	--	--	14.89	26.89	21.39	flush	s.steel	
RW7-8	shallow	4.55	--	--	--	14.99	25.90	21.35	flush	s.steel	
RW7-9	shallow	5.31	--	--	--	16.22	26.87	21.56	flush	s.steel	Sediment on probe.
RW7-10	shallow	4.85	--	--	--	14.18	26.10	21.25	flush	s.steel	
RW15-1	shallow	5.86	--	--	--	14.91	29.95	24.09	flush	s.steel	Orange floc on probe.
RW15-2	shallow						30.15		flush	s.steel	Well not included in quarterly monitoring plan
P Series:											
P-1	shallow	5.76	--	--	--	9.78	30.09	24.33	flush	1.5" pvc	Sediment on probe.
P-2	shallow	WA	--	--	--	WA	30.19	WA	flush	1.5" pvc	Well was sealed on March 29, 1996.
PI Series:											
PI-1	deep						26.90		flush	8" s.steel	Well not included in quarterly monitoring plan

882590013

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/17/96)
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering
July 1996
File: 94039/wldata/Quartly.xls
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
CW Series:											
CW-1	shallow	6.10	--	--	--	11.45	29.77	23.67	flush	s.steel	
CW-2	shallow						29.51		flush	s.steel	Well not included in quarterly monitoring plan
CW-3	recov.						29.72		flush	s.steel	Well not included in quarterly monitoring plan
CW-4	shallow	5.22	--	--	--	10.97	28.83	23.61	flush	s.steel	
CW-5	recov.						28.67		flush	s.steel	Well not included in quarterly monitoring plan
CW-6	shallow						28.93		flush	s.steel	Well not included in quarterly monitoring plan
CW-7	shallow	5.36	--	--	--	13.99	26.13	20.77	flush	s.steel	
CW-8	shallow	6.43	--	--	--	13.91	26.77	20.34	flush	s.steel	
CW-9	recov.						26.37		flush	s.steel	Well not included in quarterly monitoring plan
CW-10	shallow	N/A	--	--	--	N/A	25.91	N/A	flush	s.steel	Not accessible; roll-off covering the well
CW-11	recov.						25.74		vaultbox	s.steel	Well not included in quarterly monitoring plan
CW-12	shallow	5.24	--	--	--	13.97	25.71	20.47	flush	s.steel	Product on probe (DNAPL)
CW-13	shallow						26.05		flush	s.steel	Well not included in quarterly monitoring plan
CW-14	shallow	5.41	--	--	--	13.90	26.37	20.96	flush	s.steel	
CW-15	recov.						26.31		flush	s.steel	Well not included in quarterly monitoring plan
CW-16	shallow	5.53	13.74	--	0.19	13.93	26.45	20.92	flush	s.steel	Product on probe (DNAPL)
CW-17	shallow	5.03	--	--	--	13.97	26.25	21.22	flush	s.steel	
CW-18	recov.						26.61		flush	s.steel	Well not included in quarterly monitoring plan
CW-19	shallow						26.50		flush	s.steel	Well not included in quarterly monitoring plan
CW-20	shallow						26.74		flush	s.steel	Well not included in quarterly monitoring plan
CW-21	recov.						26.77		flush	s.steel	Well not included in quarterly monitoring plan
CW-22	shallow						26.35		flush	s.steel	Well not included in quarterly monitoring plan

882590014

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/17/96)

Former Hexcel Facility

Lodi, New Jersey

-All measurements in feet -

-All elevations in feet (NGVD)-

GEO Engineering

July 1996

File: 94039/wldata/Quartrly.xls

Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-1	(a)	8.86	--	--	--	23.52	32.42	23.56	stickup	pvc	
MW-2	shallow	6.95	--	--	--	10.25	31.00	24.05	stickup	pvc	
MW-3	deep	9.41 *	--	--	--	30.76	31.13	21.72	stickup	pvc	Sediment on probe
MW-4	shallow	7.48	--	--	--	9.91	32.33	24.85	stickup	pvc	
MW-5	deep	10.31 *	--	--	--	28.34	32.54	22.23	stickup	pvc	
MW-6	shallow	9.31	17.44	--	0.87	18.31	30.74	21.43	stickup	pvc	Product on probe (DNAPL)
MW-7	deep	8.66 *	--	--	--	32.91	30.68	22.02	stickup	pvc	
MW-8	shallow	9.72	--	--	--	17.35	30.26	20.54	stickup	pvc	
MW-9	deep	7.75 *	--	--	--	29.58	29.83	22.08	stickup	pvc	
MW-10	shallow	10.70	--	--	--	16.75	30.83	20.13	stickup	pvc	
MW-11	deep	8.98 *	--	--	--	33.42	30.78	21.80	stickup	pvc	
MW-12	shallow	9.52	--	--	--	17.01	31.01	21.49	stickup	pvc	
MW-13	deep	8.73 *	--	--	--	32.96	31.16	22.43	stickup	pvc	
MW-14	shallow	9.43	--	--	--	15.59	30.70	21.27	stickup	pvc	
MW-15	deep	7.85 *	--	--	--	25.61	30.77	22.92	stickup	pvc	
MW-16	shallow	5.51	--	--	--	12.65	29.69	24.18	stickup	pvc	
MW-17	shallow	7.87	--	--	--	14.11	31.44	23.57	stickup	pvc	
MW-18	shallow	8.03	--	--	--	11.35	32.23	24.20	stickup	pvc	Orange floc on probe.
MW-19	deep	6.32 *	--	--	--	26.58	29.08	22.76	stickup	pvc	
MW-20	shallow	4.79	--	--	--	20.04	27.95	23.16	flush	pvc	
MW-21	shallow	7.76	--	--	--	15.12	30.67	22.91	stickup	pvc	
MW-22	shallow	4.68	--	--	--	8.23	28.45	23.77	flush	pvc	Possible surface seepage in the well from the joint in the PVC riser.
MW-23	shallow	3.50	--	--	--	9.66	27.51	24.01	flush	pvc	Product on probe (LNAPL); sediment on probe
MW-24	shallow	2.36	--	--	--	9.68	26.51	24.15	flush	pvc	Orange floc on probe.
MW-25	shallow	5.07	--	--	--	12.73	26.03	20.96	flush	pvc	Yellow liquid on the inside of PVC Casing

882590015

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/17/96)
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering
July 1996
File: 94039/wldata/Quartrly.xls
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-26	(b)	9.32	--	--	--	17.91	28.85	19.53	flush	2" pvc	
MW-27	shallow	6.47	--	--	--	12.52	31.43	24.96	stickup	pvc	
MW-28	shallow	8.60	--	--	--	14.76	29.68	21.08	stickup	pvc	
MW-29	shallow	3.30	--	--	--	9.34	27.32	24.02	flush	pvc	Sediment on probe
MW-30	shallow	4.44	--	--	--	10.46	28.08	23.64	flush	pvc	Orange floc on probe
MW-31	shallow	4.21	--	--	--	10.61	27.95	23.74	flush	pvc	Orange floc on probe
MW-32	shallow	WA				WA	32.51	WA	stickup	pvc	Well was sealed on March 29, 1996.
MW-33	shallow	8.78	--	--	--	16.98	31.72	22.94	stickup	pvc	
PB Series:											
PB-1	shallow	1.10 ^	--	--	--	5.20	21.78	20.68	stickup	2" g.steel	
PB-2	shallow	1.70	--	--	--	5.82	21.25	19.55	stickup	2" g.steel	
PB-4	shallow	2.53	--	--	--	5.43	21.52	18.99	stickup	2" g.steel	

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- : Not detected by product interface meter.

N/A : Well not accessible.

(a) : Recent subsurface investigation near MW-1 revealed that MW-1 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

(b) : Construction details for MW-26 reveal that MW-26 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

WA : Well was sealed on March 29, 1996. Refer to April 1996 Progress Report for details.

* : Depth of water for all the deep wells was re-measured on 4/25/96 due to erroneous measurement taken for MW-7 on 4/17. The data given here is for 4/25/96

^ : Water level was measured by a tape measure.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

882590016

TABLE 2: WELL CONSTRUCTION DATA
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering
July 1996
File: 94039/wldata/wellscrn.xls
Entered by : SG; Check: SKT

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/17/96)	Length of Screen	Elevation Top of Screen	Water Elevation** (4/17/96)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
RW Series:												
RW1-1	shall.	28.67	28.24	14.29	10	23.67	23.67	flush	s. steel	10/91	Heritage	Equal
RW6-1	shall.	29.28	28.84	13.74	5	20.28	26.27	flush	s. steel	8/90	Heritage	Yes
RW6-2	shall.	U	29.34	14.81	5	U	26.63	flush	s. steel	8/90	Heritage	U
RW6-3	shall.	29.02	28.72	5.42	5	27.52	25.38	flush	s. steel	8/90	Heritage	No
RW7-1	shall.	26.94	26.25	16.53	5	13.94	21.33	flush	s. steel	8/90	Heritage	Yes
RW7-2	shall.	27.07	26.48	16.82	5	14.57	21.53	flush	s. steel	8/90	Heritage	Yes
RW7-3	shall.	27.17	26.78	17.28	5	14.67	21.64	flush	s. steel	8/90	Heritage	Yes
RW7-4	shall.	27.60	27.11	19.10	5	13.60	21.71	flush	s. steel	8/90	Heritage	Yes
RW7-5	shall.	27.97	27.57	19.39	5	12.97	21.59	flush	s. steel	9/90	Heritage	Yes
RW7-6	shall.	27.10	26.48	15.00	5	17.10	21.21	flush	s. steel	9/90	Heritage	Yes
RW7-7	shall.	27.25	26.89	14.89	5	17.25	21.39	flush	s. steel	9/90	Heritage	Yes
RW7-8	shall.	26.71	25.90	14.99	5	16.71	21.35	flush	s. steel	9/90	Heritage	Yes
RW7-9	shall.	27.18	26.87	16.22	5	15.18	21.56	flush	s. steel	2/91	Heritage	Yes
RW7-10	shall.	26.50	26.10	14.18	5	16.50	21.25	flush	s. steel	2/91	Heritage	Yes
RW15-1	shall.	30.43	29.95	14.91	10	25.68	24.09	flush	s. steel	8/90	Heritage	No
RW15-2	shall.	30.37	30.15		10	26.37	NI	flush	s. steel	8/90	Heritage	NI
P Series:												
P-1	shall.	U	30.09	9.78	U	U	24.33	flush	1.5" pvc	U	U	U
P-2	shall.	U	30.19	WA	U	U	WA	flush	1.5" pvc	U	U	U, WA
PI Series:												
PI-1	deep	U	26.90		U	U	NI	flush	s. steel	10/91	Heritage	^

TABLE 2: WELL CONSTRUCTION DATA
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering

July 1996

File: 94039/wldata/wellscrn.xls

Entered by : SG; Check: SKT

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/17/96)	Length of Screen	Elevation Top of Screen	Water Elevation** (4/17/96)	Well		Installation		Water Table Elv. > Top of Screen Elv.
								Construction *		Date	By	
Type	Casing											
CW Series:												
CW-1	shall.	30.27	29.77	11.45	5	23.27	23.67	flush	s.steel	9/90	Heritage	Yes
CW-2	shall.	30.11	29.51		5	23.11	NI	flush	s.steel	9/90	Heritage	NI
CW-3	recov.	U	29.72		5	U	NI	flush	s.steel	9/90	Heritage	NI
CW-4	shall.	29.10	28.83	10.97	5	22.60	23.61	flush	s.steel	7/90	Heritage	Yes
CW-5	recov.	28.89	28.67		5	22.39	NI	flush	s.steel	7/90	Heritage	NI
CW-6	shall.	29.25	28.93		5	25.25	NI	flush	s.steel	9/90	Heritage	NI
CW-7	shall.	26.70	26.13	13.99	5	17.70	20.77	flush	s.steel	8/90	Heritage	Yes
CW-8	shall.	26.70	26.77	13.91	5	17.70	20.34	flush	s.steel	8/90	Heritage	Yes
CW-9	recov.	26.60	26.37		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-10	shall.	26.50	25.91	N/A	5	17.50	N/A	flush	s.steel	8/90	Heritage	N/A
CW-11	recov.	26.60	25.74		5	17.60	NI	vaultbox	s.steel	8/90	Heritage	NI
CW-12	shall.	26.51	25.71	13.97	5	17.51	20.47	flush	s.steel	8/90	Heritage	Yes
CW-13	shall.	26.60	26.05		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-14	shall.	26.70	26.37	13.90	5	17.70	20.96	flush	s.steel	8/90	Heritage	Yes
CW-15	recov.	26.90	26.31		5	17.90	NI	flush	s.steel	8/90	Heritage	NI
CW-16	shall.	27.00	26.45	13.93	5	18.00	20.92	flush	s.steel	8/90	Heritage	Yes
CW-17	shall.	27.10	26.25	13.97	5	18.10	21.22	flush	s.steel	8/90	Heritage	Yes
CW-18	recov.	27.20	26.61		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-19	shall.	27.20	26.50		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-20	shall.	27.30	26.74		5	18.30	NI	flush	s.steel	8/90	Heritage	NI
CW-21	recov.	27.40	26.77		5	18.40	NI	flush	s.steel	8/90	Heritage	NI
CW-22	shall.	27.30	26.35		5	18.30	NI	flush	s.steel	8/90	Heritage	NI

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TABLE 2: WELL CONSTRUCTION DATA
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering
July 1996
File: 94039/wldata/wellscrn.xls
Entered by : SG; Check: SKT

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/17/96)	Length of Screen	Elevation Top of Screen	Water Elevation** (4/17/96)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-1	(a)	29.03	32.42	23.52	5	13.88	23.56	stickup	pvc	7/88	Environ	(a)
MW-2	shall.	27.90	31.00	10.25	5	26.13	24.05	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	30.76	5	5.30	21.72	stickup	pvc	8/88	Environ	^
MW-4	shall.	29.02	32.33	9.91	5	27.49	24.85	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	28.34	5	9.12	22.23	stickup	pvc	8/88	Environ	^
MW-6	shall.	27.14	30.74	18.31	10	22.12	21.43	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	32.91	5	2.55	22.02	stickup	pvc	7/88	Environ	^
MW-8	shall.	26.92	30.26	17.35	10	22.98	20.54	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	29.58	5	5.09	22.08	stickup	pvc	7/88	Environ	^
MW-10	shall.	27.33	30.83	16.75	11	24.81	20.13	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	33.42	10	6.86	21.80	stickup	pvc	7/88	Environ	^
MW-12	shall.	27.62	31.01	17.01	10	24.05	21.49	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	32.96	5	2.89	22.43	stickup	pvc	7/88	Environ	^
MW-14	shall.	27.12	30.70	15.59	9	24.18	21.27	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	25.61	5	10.13	22.92	stickup	pvc	7/88	Environ	^
MW-16	shall.	26.71	29.69	12.65	5	22.14	24.18	stickup	pvc	8/88	Environ	Yes
MW-17	shall.	29.10	31.44	14.11	8	25.10	23.57	stickup	pvc	1/89	Environ	No
MW-18	shall.	29.04	32.23	11.35	5	25.97	24.20	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	26.58	5	7.30	22.76	stickup	pvc	1/89	Environ	^
MW-20	shall.	28.50	27.95	20.04	5	13.50	23.16	flush	pvc	11/90	Heritage	Yes
MW-21	shall.	28.80	30.67	15.12	10	25.80	22.91	stickup	pvc	9/90	Heritage	No
MW-22	shall.	28.73	28.45	8.23	5	25.73	23.77	flush	pvc	12/90	Heritage	No
MW-23	shall.	27.83	27.51	9.66	5	22.83	24.01	flush	pvc	11/90	Heritage	Yes
MW-24	shall.	26.93	26.51	9.68	5	21.93	24.15	flush	pvc	11/90	Heritage	Yes
MW-25	shall.	26.47	26.03	12.73	10	23.47	20.96	flush	pvc	9/90	Heritage	No

TABLE 2: WELL CONSTRUCTION DATA
Former Hexcel Facility
Lodi, New Jersey

-All measurements in feet -
-All elevations in feet (NGVD)-

GEO Engineering
July 1996
File: 94039/wldata/wellscrn.xls
Entered by : SG; Check: SKT

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/17/96)	Length of Screen	Elevation Top of Screen	Water Elevation** (4/17/96)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-26	(b)	29.26	28.85	17.91	2	12.26	19.53	flush	2" pvc	12/90	Heritage	(b)
MW-27	shall.	29.10	31.43	12.52	5	24.10	24.96	stickup	pvc	9/90	Heritage	Yes
MW-28	shall.	27.50	29.68	14.76	10	24.50	21.08	stickup	pvc	9/90	Heritage	No
MW-29	shall.	27.50	27.32	9.34	5	22.50	24.02	flush	pvc	2/91	Heritage	Yes
MW-30	shall.	28.25	28.08	10.46	5	22.25	23.64	flush	pvc	2/91	Heritage	Yes
MW-31	shall.	28.33	27.95	10.61	5	22.33	23.74	flush	pvc	2/91	Heritage	Yes
MW-32	shall.	U	32.51	WA	6	U	WA	stickup	pvc	4/92	Heritage	WA
MW-33	shall.	U	31.72	16.98	10	U	22.94	stickup	pvc	4/92	Heritage	U
PB Series:												
PB-1	shallow	17.46	21.78	5.20	1	16.46	20.68	stickup	2" g.steel	6/95	GEO	Yes
PB-2	shallow	17.50	21.25	5.82	1	16.70	19.55	stickup	2" g.steel	6/95	GEO	Yes
PB-4	shallow	17.52	21.52	5.43	1	16.72	18.99	stickup	2" g.steel	6/95	GEO	Yes

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All Measurements of depths are from the top of casing unless otherwise noted.

** : Depth of water for all the deep wells was re-measured on 4/25/96 due to erroneous measurement taken for MW-7 on 4/17/96. The data given here is for 4/25/96.

N/A: Well was inaccessible on the day of quarterly monitoring.

NI: Well not included in the quarterly monitoring.

U: Unknown.

*: All wells 4" diameter unless otherwise noted.

^: Well is screened in the confined aquifer, therefore, the question is not applicable.

(a): Ground water elevation data from MW-1 has been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

(b): Ground water elevation data from MW-26 has been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

WA: P-2 and MW-32 were sealed on March 29, 1996; refer to April 1996 Progress Report text for details.

Contour Map Reporting Form

Site Name: Former Hexcel Facility, Lodi, NJ
Project No.: 94039

Figure No.: 1
Water levels taken on 4/17/96
Page 1 of 2

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☒ Yes
If yes, identify these wells. ☐ No

Monitor wells for which the water table elevations are higher than the top of the well screen are identified in Table 2: Summary of Well Construction Data provided in Appendix A.

3. Are there any monitor wells present at the site but omitted from the contour map? ☒ Yes
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☐ No

Quarterly ground water elevation monitoring plan approved by NJDEP in its June 12, 1995 letter. Some of the shallow wells were inaccessible due to snow-cover; refer to notes on Figure 1 and Table 1.

4. Are there any monitor wells containing separate phase product during this measuring event? ☒ Yes
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ No
If yes show the formula used to correct the water table elevation. ☒ Yes
☐ No

Separate phase product, where measurable, consists of DNAPL, not LNAPL; therefore, no correction is required.

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes
If yes, discuss the reasons for the change. ☒ No

6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☒ Yes
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☐ No

It is not known why mounding occurs in the vicinity of building 2.

Site Name: Former Hexcel Facility, Lodi, NJ
Project No.: 94039

Figure No.: 1
Water levels taken on 4/17/96
Page 2 of 2

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes
If no, justify inclusion of those wells. ☐ No
8. Were the ground water contours
☒ computer generated, ☐ computer aided; or ☐ hand-drawn?
If computer aided or generated, identify the interpolation method(s) used.

Kriging Routine

Contour Map Reporting Form

Site Name: Former Hexcel Facility, Lodi, NJ

Project No.: 94039

Figure No.: 2

Water levels taken on 4/25/96

Page 1 of 1

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☐ Yes
If yes, identify these wells. ☐ No

Not applicable because confined aquifer.

3. Are there any monitor wells present at the site but omitted from the contour map? ☐ Yes
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☒ No

4. Are there any monitor wells containing separate phase product during this measuring event? ☐ Yes
☒ No
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ Yes
If yes show the formula used to correct the water table elevation. ☒ No

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes
If yes, discuss the reasons for the change. ☒ No

6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☐ Yes
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☒ No

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes
If no, justify inclusion of those wells. ☐ No

8. Were the ground water contours
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?
If computer aided or generated, identify the interpolation method(s) used.

Kriging method.

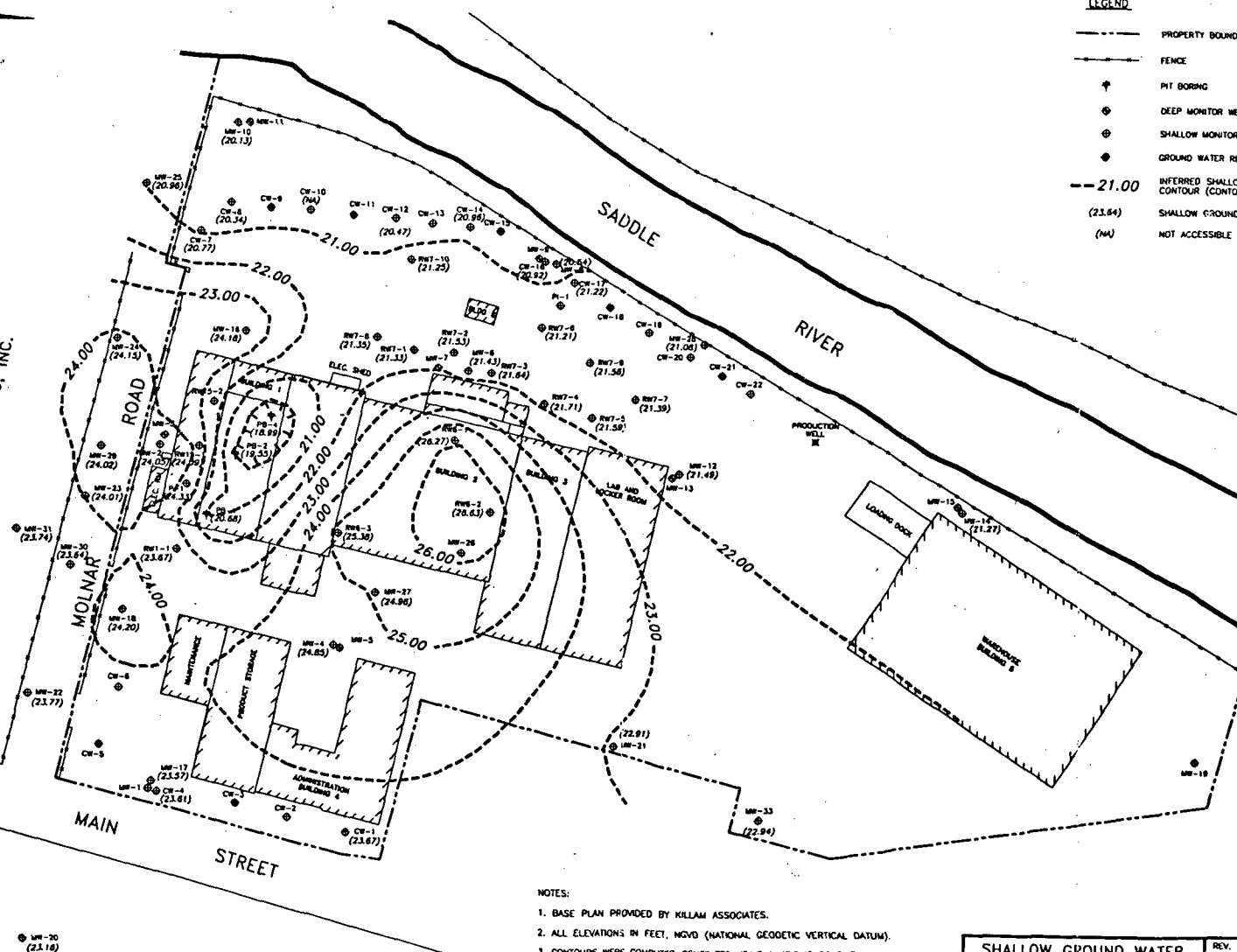
NAPP TECHNOLOGIES, INC.

MAIN STREET

SADDLE RIVER

LEGEND

- PROPERTY BOUNDARY
 --- FENCE
 + PIT BORING
 ● DEEP MONITOR WELL
 ● SHALLOW MONITOR WELL
 ● GROUND WATER RECOVERY WELL
 - - 21.00 INFERRED SHALLOW GROUND WATER ELEVATION CONTOUR (CONTOUR INTERVAL 1.00 FT.)
 (23.64) SHALLOW GROUND WATER ELEVATION, FT. NGVD
 (NA) NOT ACCESSIBLE



NOTES:

1. BASE PLAN PROVIDED BY KILLAM ASSOCIATES.
2. ALL ELEVATIONS IN FEET, NGVD (NATIONAL GEODETTIC VERTICAL DATUM).
3. CONTOURS WERE COMPUTER-GENERATED USING A KRIGING ROUTINE.
4. REFER TO TABLE 1 FOR LIST OF WELLS WHICH WERE USED TO GENERATE THE SHALLOW GROUND WATER ELEVATION CONTOURS.
5. WATER LEVEL IN THE BASEMENT IS PUMPED TO THE LEVEL OF THE FLOOR. THE SURFACE ELEVATION OF THE FLOOR IS APPROXIMATELY 17.5'.

12.5 0 12.5 25
SCALE IN FEET

SHALLOW GROUND WATER
ELEVATION CONTOURS ON
4/17/96

FORMER HEXCEL FACILITY
LODI, NEW JERSEY

REV.	GEO FILE NO.	DATE	FIGURE
8	94039	JULY 1996	1

GEO Engineering

DOVER, N.J.
(908) 361-3600

Appendix C

**TABLE 3: SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS
FOR MAY 1996
Former Hexcel Facility
Lodi, New Jersey**

GEO Engineering
July 1996
File: 94039/wldata/Monthly.xls
Entered by: SG Check: SKT

-All measurements in feet -
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 5/15/96

Well ID	Type	Depth to Water	Depth to Product DNAPL	Product LNAPL	Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
CW-12	shallow	6.78	--	--	--	13.96	25.71	18.93	Product on probe (DNAPL)**
CW-16	shallow	6.90	--	--	--	13.90	26.45	19.55	Product on probe (DNAPL)**
MW-6	shallow	9.67	--	--	--	18.30	30.74	21.07	Product on probe (DNAPL)**
MW-8	shallow	11.36	--	--	--	17.33	30.26	18.90	Product on probe (DNAPL)**
MW-23	shallow	3.80	--	--	--	9.64	27.51	23.71	Sediment on Probe
RW6-1	shallow	2.98	--	--	--	13.72	28.84	25.86	Product on probe (DNAPL)**
RW7-1	shallow	5.36	--	--	--	16.60	26.25	20.89	Product on probe (DNAPL)**
RW7-4	shallow	6.97	--	--	--	19.05	27.11	20.14	Product on probe (DNAPL)**
PB-2	shallow	1.46	5.46	--	0.34	5.80	21.25	19.79	Product on probe (DNAPL)**; sediment on probe

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- Not detected by product interface meter.

* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness * specific gravity).
Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

** - Though the product-interface meter did not register presence of product in the well, product was observed on the probe when the probe was taken out.
Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

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NAPP TECHNOLOGIES, INC.

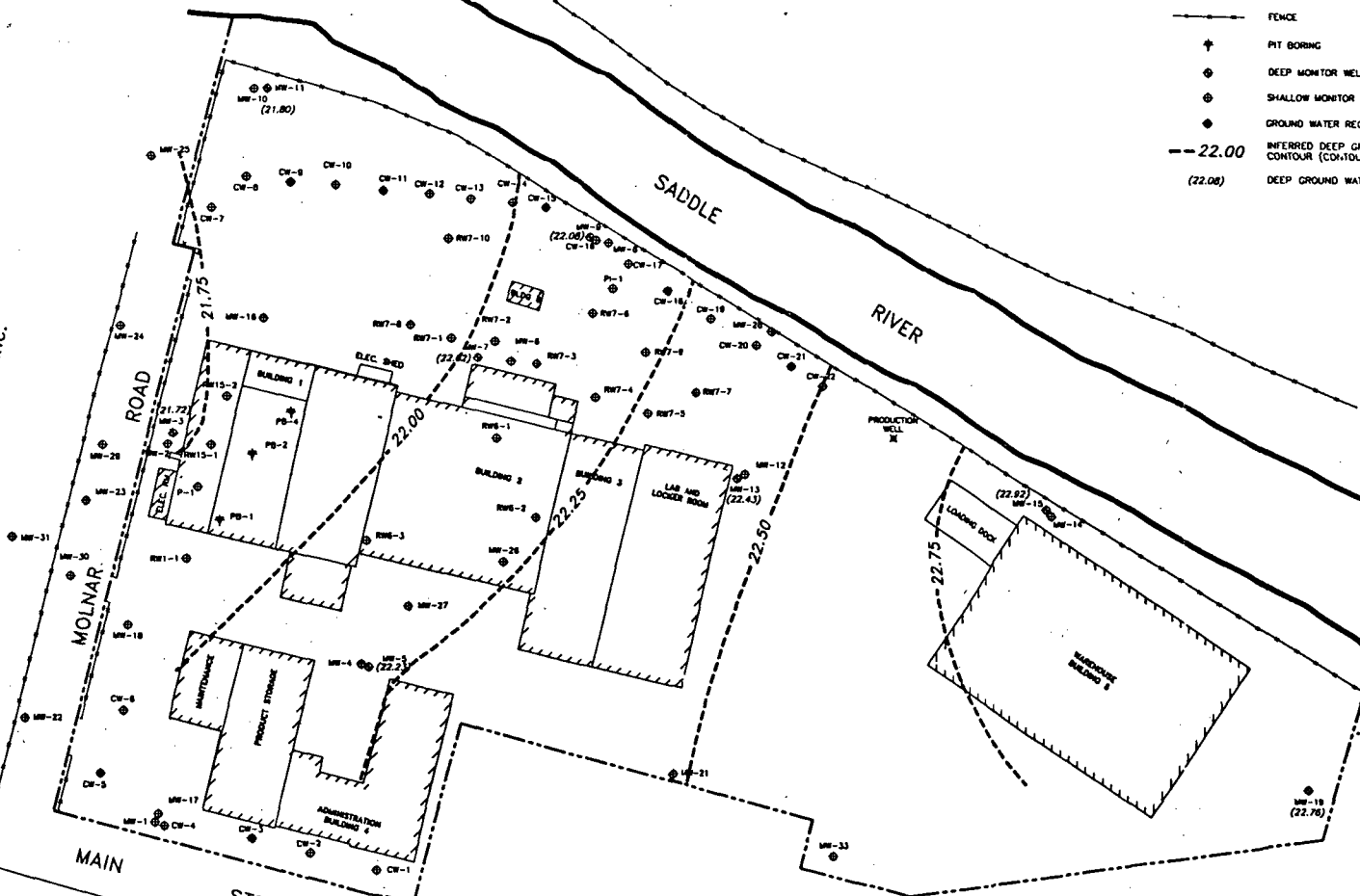
MAIN STREET

MOLNAR ROAD

SADDLE RIVER

LEGEND

- - - - - PROPERTY BOUNDARY
 - - - - - FENCE
 + PIT BORING
 ● DEEP MONITOR WELL
 ○ SHALLOW MONITOR WELL
 ● GROUND WATER RECOVERY WELL
 - - 22.00 - - INFERRED DEEP GROUND WATER ELEVATION CONTOUR (CONTOUR INTERVAL 0.25 FT.)
 (22.08) DEEP GROUND WATER ELEVATION, FT. NGVD



NOTES:

1. BASE PLAN PROVIDED BY KILLAM ASSOCIATES.
2. ALL ELEVATIONS IN FEET, NGVD (NATIONAL GEODETIC VERTICAL DATUM).
3. CONTOURS WERE COMPUTER-GENERATED USING A KRIGING ROUTINE.
4. REFER TO TABLE 1 FOR LIST OF WELLS WHICH WERE USED TO GENERATE THE DEEP GROUND WATER ELEVATION CONTOURS.

12.5 0 12.5 25
SCALE IN FEET

DEEP GROUND WATER
ELEVATION CONTOURS ON
4/25/96

FORMER HEXCEL FACILITY
LODI, NEW JERSEY

REV.	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

GEO Engineering

DOCK, N.J.
(201) 361-3600

FIGURE
2

TABLE 4: SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS
FOR JUNE 1996
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering
July 1996
File: 94039/wldata/Monthly.xls
Entered by: SG Check: SKT

-All measurements in feet -
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 6/13/96

Well ID	Type	Depth to Water	Depth to Product DNAPL	Depth to Product LNAPL	Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
CW-12	shallow	6.90	--	--	--	13.95	25.71	18.81	Product on probe (DNAPL)**
CW-16	shallow	7.16	--	--	--	13.92	26.45	19.29	Product on probe (DNAPL)**
MW-6	shallow	9.82	17.88	--	0.44	18.32	30.74	20.92	Product on probe (DNAPL)**
MW-8	shallow	11.47	--	--	--	17.33	30.26	18.79	Product on probe (DNAPL)**
MW-23	shallow	3.92	--	--	--	9.62	27.51	23.59	Sediment on Probe
RW6-1	shallow	2.67	--	--	--	13.71	28.84	26.17	Product on probe (DNAPL)**
RW7-1	shallow	5.49	--	--	--	16.60	26.25	20.76	Product on probe (DNAPL)**; sediment on probe
RW7-4	shallow	6.64	--	--	--	19.04	27.11	20.47	Product on probe (DNAPL)**
PB-2	shallow	1.28	5.46	--	0.34	5.80	21.25	19.97	Product on probe (DNAPL)**; sediment on probe

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- Not detected by product interface meter.

* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness * specific gravity).
Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

** - Though the product-interface meter did not register presence of product in the well, product was observed on the probe when the probe was taken out.
Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

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Appendix D

TABLE 5: SUMMARY OF PRODUCT COLLECTION (DNAPL)

Former Hexcel Facility

Lodi, New Jersey

July 1996

File: 94039\prodcoll\prodcol2.xls

Sheet: Second QD'96 (DEP)

All Quantities are Expressed in Gallons Rounded to the Nearest 0.1

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	RW7-5 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	PB-2 (DNAPL)	CW-15^ (DNAPL)	TOTAL VOLUME RECOVERED
4/3/96	0.1	*	*	*	*	*	*	*	*	0.1	*	↓
4/12/96	--	*	*	*	*	*	*	*	*	0.1	*	
4/17/96 (Qtrly)	0.5	--	--	--	--	--	--	--	--	--	*	
4/25/96	0.2	*	*	*	*	*	*	*	0.1	0.1	*	
5/2/96	0.1	*	*	*	*	*	*	*	--	0.1	*	
5/10/96	--	--	*	*	*	*	*	*	--	0.1	*	
5/15/96 (Monthly)	--	--	*	--	--	--	*	--	--	0.1	*	
5/21/96	--	*	*	*	*	*	*	*	--	0.1	*	
5/31/96	--	*	*	*	*	*	*	*	--	0.1	*	
6/13/96 (Monthly)	0.1	--	*	--	--	--	*	--	--	0.1	*	
6/20/96	0.1	*	*	*	*	*	*	*	*	--	*	
6/26/96	--	*	*	*	*	*	*	*	*	--	*	
TOTAL VOLUME RECOVERED, 2nd QUARTER, 1996	1.1	--	--	--	--	--	--	--	--	0.9	--	2.0
TOTAL VOLUME RECOVERED, 1st QUARTER 1996	0.6	--	--	--	--	--	--	--	--	0.7	--	1.3
TOTAL VOLUME RECOVERED, 10/94 - 12/95	11.5	1.0	0.4	0.1	0.3	--	--	0.7	0.4	2.4	0.8	17.6
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	13.2	1.0	0.4	0.1	0.3	--	--	0.7	0.4	4.0	0.8	20.9

Notes: For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

* Well not included in the weekly product recovery program.

-- i) Well was monitored and did not indicate recoverable product or ii) no measurable amount of product was recovered either by bailing or pumping.

^ CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

GEO Engineering

882590030

TABLE 6: SUMMARY OF PRODUCT COLLECTION (LNAPL)

Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\prodcoll\prodcol2.xls

Sheet: Second QL'96 (DEP)

All Quantities are Expressed in Gallons Rounded to the Nearest 0.1

DATE	MW-6 (LNAPL)	MW-8 (LNAPL)	MW-23 (LNAPL)	RW1-1 (LNAPL)	RW 6-1 (LNAPL)	RW7-4 (LNAPL)	RW7-5 (LNAPL)	CW-7 (LNAPL)	CW-12 (LNAPL)	CW-15^ (LNAPL)	CW-16 (LNAPL)	MW-17 (LNAPL)	RW 15-1 (LNAPL)	TOTAL VOLUME RECOVERED
4/3/96	*	*	*	*	*	*	*	*	*	*	*	*	*	↓
4/12/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
4/17/96 (Qtrly)	--	--	--	--	--	--	--	--	--	*	--	--	--	
4/25/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
5/2/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
5/10/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
5/15/96 (Monthly)	--	--	--	*	--	--	*	*	--	*	--	*	*	
5/21/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
5/31/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
6/13/96 (Monthly)	--	--	--	*	--	--	*	*	--	*	--	*	*	
6/20/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
6/26/96	*	*	*	*	*	*	*	*	*	*	*	*	*	
TOTAL VOLUME RECOVERED, 2nd QUARTER, 1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL VOLUME RECOVERED, 1st QUARTER 1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL VOLUME RECOVERED, 10/94 - 12/95	6.7	--	--	--	--	--	--	0.8	--	--	--	--	--	7.5
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	6.7	--	--	--	--	--	--	0.8	--	--	--	--	--	7.5

Notes: For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

* Well not included in the weekly product recovery.

-- i) Monitoring did not indicate recoverable product or ii) no measurable amount of LNAPL was recovered in the absorbent pad.

^ CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

882590031

Appendix E

882590032

Client: Hexcel Corporation
 Project: Borings in Building 1 Basement
 Location: Lodi, NJ
 Drilling Contractor: Summit Drilling Co., Inc.
 Inspectors: CRB, SJA
 Surface Elev.: 17.46 ft. NGVD


Boring No.: PB-1
 Page 1 of 1
 File No.: 94039.00 Task 003
 boringlo\blogpit.xls
 Date Started: 6/13/95
 Date Completed: 6/13/95

NOTE

Sample		Blows /12"	Depth (Feet)	Soil Type	Soil Description
No.	Recovery				
S-1	16"	NA	0	Conc. Slab	Concrete floor slab, 9" thick; bottom 4" appears moister than first 5".
			1	FILL	Top 5": Brown, coarse to fine SAND, little black Silt; moist, pieces of decayed wood, ash and brick present, possibly stained.
			2	ML	Bottom 11": Brown, Clayey SILT, trace fine Gravel; moist.
S-2	24"	NA	3		Top 20": Alternating layers of brown-gray Silty CLAY and Clayey SILT (typically 1/2" to 1" wide); moist; thin black layers (2), ~1/8" wide, possibly ash or silt, present at 3.4' and 3.7' below ground surface; sand lens, ~1/2" wide, present at 4.2' below ground surface. Bottom 4": Brown, CLAY; moist.
			4	CL	
			5		
					Boring terminated at 4.8' below ground surface.
					FID Readings: First Spoon (S-1): No measurements. FID Readings: Second Spoon (S-2): FID > 1,000 ppm decreasing to ~50 ppm with increasing depth.
					<div> Well Point Construction Details: Well Depth: 2.0' (from top of concrete slab) Well Diameter: 2" Borehole Diameter: 6" Solid Riser Length: 5.32'* Solid Riser Type: Galvanized Steel Screen Length: 1.0' Screen Type: Galvanized Steel Filter Pack Type: Morie #1 Bentonite Pellets were used to fill the boring up to the bottom of the screen. Concrete was used to seal well point in the concrete slab. *: The total length of the solid riser at the time of installation was 2.7' which was later extended. </div>
			10		
			15		

Sampler Type: Standard Split Spoon

Boring Method: Jackhammer Driven

 Sample Recovered
 NA Not Applicable

GEO Engineering

882590033


Client: Hexcel Corporation
 Project: Borings in Building 1 Basement
 Location: Lodi, NJ
 Drilling Contractor: Summit Drilling Co., Inc.
 Inspectors: CRB, SJA
 Surface Elev.: 17.50 ft. NGVD

Boring No.: PB-2
 Page 1 of 1
 File No.: 94039.00 Task 003
 boringlo\blogpit.xls
 Date Started: 6/13/95
 Date Completed: 6/13/95

Sample		Blows /12"	Depth (Feet)	Soil Type	Soil Description
No.	Recovery				
S-1	6"	NA	0	Conc. Slab	Concrete floor slab, 9" thick.
			1	FILL	Top 4": Black, Clayey SILT, and medium Gravel; moist, possibly stained.
			2	ML	Bottom 2": Brown, Clayey SILT; moist.
S-2	20"	NA	3		Brown, Clayey SILT; very moist/wet (runny); thin black layers (4), ~1/8" thick, possibly ash or silt, at 3.1', 3.4', 3.6' and 4.0' below ground surface. Boring terminated at 4.8' below ground surface. FID Readings: First Spoon (S-1): > 1,000 ppm. FID Readings: Second Spoon (S-2): ~200 ppm at top of spoon decreasing to ~50 ppm with increasing depth.
			4		
			5		
			10		<div> Well Point Construction Details: Well Depth: 1.8' (from top of concrete slab) Well Diameter: 2" Borehole Diameter: 6" Solid Riser Length: 4.55'* Solid Riser Type: Galvanized Steel Screen Length: 1.0' Screen Type: Galvanized Steel Filter Pack Type: Morie #1 The borehole collapsed to where the bottom of screen had to be set, therefore, no bentonite was used to fill up the bottom of the boring. Concrete was used to seal well point in the concrete slab. *: The total length of the solid riser at the time of installation was 2.7' which was later extended. </div>
			15		

Sampler Type: Standard Split Spoon

Boring Method: Jackhammer Driven

 Sample Recovered
 NA Not Applicable

GEO Engineering

882590034


Client: Hexcel Corporation
 Project: Borings in Building 1 Basement
 Location: Lodi, NJ
 Drilling Contractor: Summit Drilling Co., Inc.
 Inspectors: CRB, SG, SJA
 Surface Elev.: Not surveyed

Boring No.: PB-3
 Page 1 of 1
 File No.: 94039.00 Task 003
 boringlo\blogpit.xls
 Date Started: 6/14/95
 Date Completed: 6/14/95

Sample		Blows /12"	Depth (Feet)	Soil Type	Soil Description
No.	Recovery				
S-1	4"	NA	0	Conc. Slab	Concrete floor slab, 9" thick.
			1	FILL	Top 2" : Black, coarse to fine SAND, and fine Gravel; moist, possibly stained.
				ML	Next 1" : Brown, Clayey SILT, some coarse Sand; moist.
					Bottom 1" : Concrete chips.
					Refusal at ~1.0' below ground surface.
					No well point installed.
			3		FID Readings: First Spoon (S-1): ~550 ppm to ~750 ppm, increasing with increasing depth.
			4		
			5		
			10		
			15		

Sampler Type: Standard Split Spoon

Boring Method: Jackhammer Driven

 Sample Recovered
 NA Not Applicable

GEO Engineering

882590035

Client: Hexcel Corporation
 Project: Borings in Building 1 Basement
 Location: Lodi, NJ
 Drilling Contractor: Summit Drilling Co., Inc.
 Inspectors: SG, SJA
 Surface Elev.: 17.52 ft. NGVD

Boring No.: PB-4
 Page 1 of 1
 File No.: 94039.00 Task 003
 boringlo\blogpit.xls
 Date Started: 6/14/95
 Date Completed: 6/14/95

Sample		Blows /12"	Depth (Feet)	Soil Type	Soil Description
No.	ecover				
S-1	24"	NA	0	Conc. Slab	Concrete floor slab, 9" thick.
			1	FILL	Top 5": Black, coarse to fine Sand, some Silt, some fine Gravel; moist, possibly stained, coated with product at 1.0' below ground surface.
			2	ML	Next 0.5": Black, Clayey SILT; moist, stained. Bottom 18.5": Brown, Clayey SILT; very moist/wet (runny), dark (in color) black ash or silt band at 1.6' below ground surface and lighter (in color) bands throughout; brown product seepage at 1.8' and 2.6' below ground surface.
S-2	24"	NA	3		Brown, Clayey SILT; very moist/wet (runny), silt or ash bands lighter in color than previous spoon; brown product seepage at 3.2' below ground surface.
			4		
			5		Boring terminated at 4.8' below ground surface.
					FID Readings: First Spoon (S-1): vary between ~400 and ~900 ppm FID Readings: Second Spoon (S-2): between ~400 ppm and >1,000 ppm at top of spoon decreasing to ~200 ppm with increasing depth.
			10		
			15		

Well Point Construction Details:

Well Depth: 1.8' (from top of concrete slab)
 Well Diameter: 2" Borehole Diameter: 6"
 Solid Riser Length: 4.80'* Solid Riser Type: Galvanized Steel
 Screen Length: 1.0' Screen Type: Galvanized Steel
 Filter Pack Type: Morie #1
 The borehole collapsed to where the bottom of screen had to be set, therefore, no bentonite was used to fill up the bottom of the boring.
 Concrete was used to seal well point in the concrete slab.
 *: The total length of the solid riser at the time of installation was 2.7' which was later extended.

Sampler Type: Standard Split Spoon

Boring Method: Jackhammer Driven

Sample Recovered
 NA Not Applicable

GEO Engineering

882590036

Appendix F

882590037

Appendix F

The following table summarizes the disposal documentation for the second quarter of 1996. A copy of the manifest is included.

Date Accepted at Disposal Facility (unless indicated otherwise)	State Manifest Document Number	Quantity	Comments
5/14/96	MN177705	3779 Kilograms	22 Drums; PCB Wastes

882590038



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N J D 9 8 6 5 8 4 1 3 4		Manifest Document No. 96002		2. Page 1 of 2		Information in shaded area not required by Federal law. Minnesota rules require Items H. and I.	
3. Generator's Name and Mailing Address (Also location of waste generation if different from mailing address.) HEXCEL CORPORATION 205 MAIN STREET LODI, NJ 07644 4. Generator's Phone (800) 433-5072 County:						A. State Manifest Document Number MN 177705			
5. Transporter 1 Company Name CUSTOM ENVIRONMENTAL TRANSPORT						6. US EPA ID Number DE 980918858		C. State Transporter's ID S10350	
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone (302) 426-2700	
9. Designated Facility Name and Site Address APTUS, INC. 21750 CEDAR AVENUE LAKEVILLE, MN 55044						10. U.S EPA ID Number M N D 9 8 1 1 9 0 2 4 2		E. State Transporter's ID	
								F. Transporter's Phone	
								G. State Facility's ID SAME	
								H. Facility's Phone 800-328-4061	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity	
a. X RQ, WASTE FLAMMABLE LIQUID, N.O.S., 3, UN1993, PGII (TOLUENE, PCB) (D001)						No Type 0 0 1 DM		Unit Wt/Vol 0.0136 K	
b. X RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (1,2-DICHLOROBENZENE, 1,4-DICHLOROBENZENE) (PCB)						0 0 2 DM		0.0283 K	
c. X RQ, HAZARDOUS WASTE LIQUID, N.O.S., 9, UN3082, PGIII (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) (PCB)						0 1 9 DM		0.3360 K	
d.									
J. Additional Descriptions for Materials Listed Above 11a; API 54284 L; LNAPL Water Mixture (D001, D008, D009, D021, D039, MN03, PCB2) OUT OF SERVICE DATE - 5/26/95, X750 km2 11b; API 54285 S; Soil (D008, D009, D021, D027, D039, MN03, PCB2) OUT OF SERVICE DATE - 5/25/95 - X751 11c; API 53145 L; Water Treatment Sludge (D021, D027, D039, D040) OUT OF SERVICE DATE - 3/21/96 - X750 km2						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency Contact: William Nosil 800-433-5072 73244 PA AH 03/9									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and all applicable state laws and regulations. If I am a large quantity generator I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment, or, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Robert Shusko						Signature Robert M. Shusko		Date Month Day Year 0 7 1 6 9 6	
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature Kurt R Klein		Date Month Day Year 0 7 1 6 9 6	
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name						Signature		Date Month Day Year	

Appendix G

882590040

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\sched4.xls

1996

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain air permit for pilot test												
Conduct hydraulic testing												
Conduct pilot test of recovery system												
Obtain off-site ground water data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Install deep well in vicinity of MW-1												
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Implement soil remediation												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis)												
Prepare report of sediment sampling												
REPORTING												
Prepare quarterly progress reports												
Prepare final report												
NJDEP review and site inspection												
Case closure												

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\sched4.xls

1997

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain air permit for pilot test												
Conduct hydraulic testing												
Conduct pilot test of recovery system												
Obtain off-site ground water data												
Modify design of ground water recov.sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Install deep well in vicinity of MW-1												
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Implement soil remediation												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis)												
Prepare report of sediment sampling												
REPORTING												
Prepare quarterly progress reports												
Prepare final report												
NJDEP review and site inspection												
Case closure												

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\sched4.xls

1998

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain air permit for pilot test												
Conduct hydraulic testing												
Conduct pilot test of recovery system												
Obtain off-site ground water data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Install deep well in vicinity of MW-1												
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Implement soil remediation												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis)												
Prepare report of sediment sampling												
REPORTING												
Prepare quarterly progress reports												
Prepare final report												
NJDEP review and site inspection												
Case closure												

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\sched4.xls

1999

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain air permit for pilot test												
Conduct hydraulic testing												
Conduct pilot test of recovery system												
Obtain off-site ground water data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Install deep well in vicinity of MW-1												
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Implement soil remediation												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis)												
Prepare report of sediment sampling												
REPORTING												
Prepare quarterly progress reports												
Prepare final report												
NJDEP review and site inspection												
Case closure												

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES
Former Hexcel Facility
Lodi, New Jersey

GEO Engineering

July 1996

File: 94039\sched4.xls

2000

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
GROUND WATER REMEDIATION												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain air permit for pilot test												
Conduct hydraulic testing												
Conduct pilot test of recovery system												
Obtain off-site ground water data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Install deep well in vicinity of MW-1												
CLEANING OF SEWER LINE												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
SOIL REMEDIATION												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Implement soil remediation												
SEDIMENT SAMPLING												
Collect samples (and lab. analysis)												
Prepare report of sediment sampling												
REPORTING												
Prepare quarterly progress reports												
Prepare final report												
NJDEP review and site inspection												
Case closure												